PROJECT TITLE : NEW MATERIAL DEVELOPMENT
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1. TIPPING PAPER

1.1 ECUSTA MICRO-MECHANICALLY PERFORATED PAPERS

Five bobbins with different porosities were received from Ecusta (Ref. 1, 2). MLK cigarettes were made with three tipping papers of porosities 54, 382, 602 l/h/4 cm. The dilutions and smoke deliveries obtained for the above mentioned tipping papers are compared to a standard tipping paper Z3/60. The results are given in the table below :

Porosity l/h/4 cm	54	382	602	60 (Z3/60)
Dilution (%)	10	21	28	12
TPM (mg/cig.)	20.5	16.2	14.2	19.7
DPM (mg/cig.)	18	14	13	17.5
CO (mg/cig.)	17.6	13.7	11.8	17.6
NO (mg/cig.)	0.33	0.27	0.24	0.33
SN (mg/cig.)	1.16	1.04	0.90	1.14
Puff count	9.1	9.5	10.1	9.2

Cigarettes made with the tipping paper having the porosity of 54 l/h/4 cm and the control Z3/60 were submitted for taste evaluation. Panel B found no significant difference whereas Panel A evaluated the cigarettes made with the Ecusta paper as being "harsh" and "giving a slight strange off taste"

1.2 MODIFIED TIPPING PAPER BENKERT Z4/90 AND Z4/100

Benkert developed a new perforation system on tipping papers. Basically the porosity with this system remains at the same level but the holes are smaller and more numerous. Tipping paper Z4/100 produced with this system of perforation showed a higher dilution and thus provoked lower deliveries (1 mg lower) on MERIT cigarettes manufactured in PM Munich for Italy (Ref. 1) received and analysed in April 1980.
New MERIT cigarettes with modified tipping paper Z4/100, standard Z4/100 (Control) and modified Z4/90 were received from Munich.

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The smoke results obtained with the modified tipping paper Z4/90 are close to the ones obtained with the standard tipping Z4/100. As noticed before the modified Z4/100 gave a higher dilution. The smoke deliveries are summarized in the table below.

	Z4/100 standard	Z4/100 modified	Z4/90 modified
Dilution (%)	26	30	27
CO (mg/cig.)	10.9	9.2	10.5
NO (mg/cig.)	0.20	0.18	0.20
TPM (mg/cig.)	8.3	7.8	8.1
DPM (mg/cig.)	7.5	6.9	7.2
SN (mg/cig.)	0.50	0.45	0.46
Puff count	7.8	7.9	7.6
HCN (µg/cig.)	87	75	80
Total Aldehydes (mg/cig.)	0.86	0.79	0.81

1.3 MALAUCENE MICRO-LASER PERFORATED TIPPING PAPER

Five bobbins were received from Malaucène with a porosity of 58 l/h/4 cm. We will now attempt to match this paper to the Z3/60 of Benkert.

1.4 PARLIAMENTS LIGHTS WITH HAUNI MECHANICAL PERFORATION AND LASER PERFORATION

Three kinds of PLL cigarettes were received from PM Munich.

1) Standard PLL wiht Hauni mechanically perforated tipping paper (6 holes)
2) Trial 1 PLL with Hauni laser perforated tipping paper (6 holes)
3) Trial 2 PLL with Hauni laser perforated tipping paper (12 holes)

The smoke results (TPM, DPM, tar) and dilutions obtained with laser perforated tipping papers were close to the ones obtained with mechanically perforated tipping paper. The taste evaluation showed that cigarettes having 12 laser perforated holes were better than cigarettes having 6 laser or 6 mechanically perforated holes.

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2. CIGARETTE PAPER

2.1 TERVAKOSKI TERCIG O 8.5 ND 4321

First version of Tervakoski O 8.5 ND 4321 cigarette paper was prefered to the second version for use of MLF diluted cigarettes in Finland and in Eastern countries (Ref. 3).

2.2 WATTENS TOBACCO STALKS "TAB 39300" AND BAMBOO "WP 60/RV-1"

The taste evaluation of Panel A showed that in comparison to the standard the cigarettes made with Bamboo "WP 60/RV-1" gave "a strange of taste" whereas the cigarettes made with tobacco stalks "TAB 39300" "were harsh and picked a little bit". Nevertheless the later type of cigarette paper was suggested for use on a light cigarette where a "defect" is wanted (Ref. 4). Ten bobbins of "TAB 39300" were ordered from Wattens, and will be used in project GOSTA.

3. FILTER PAPER

3.1 ECUSTA ULTRA POROUS PLUG WRAP (ULTRAPOR M)

The physical tests results have not been received yet.

3.2 SCHOELLER & HOESCH

One bobbin of porous plug wrap coated with hot melt and having a porosity of 250 K was received from Schöller & Hösch. This bobbin has been sent to QC for physical testing.

4. FILTER MATERIAL

Eastman submitted a tow 3.3/44'000 Y (Yellow Sheet No 5577). Tests have not yet begun.

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REFERENCES

1) Monthly report on New Material Development of April 1980 by B. Krasna

2) Monthly report on New Material Development of June 1980 by E. Erkohen

3) Memo from E. Erkohen of June 2nd 1980 to U. Nyffeler

4) Taste evaluation of July 8th 1980

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